

1st and final billOriginal/Duplicate/Triplicate
CONTRACT CERTIFICATE

(For Other Works)

Division: BBMP / YNK

Bill Received No.

YNK-DBR No.

Sub-Division: Yelahanka Sub - Division.

Date

Dated

Divisional

Cash Book Voucher No.

AEE/YNK Date 18-10-2021.

SBR No: 04/22-23

Date: 15/10/2021

Schedule Docket No.

Head of Account:

Sub Divisional

Work Code: 002-20-000052.

Name of Work :

Est Cost: 75.00

Lakhs

B.R.No. :

Construction of Samudhya Bhavana and other civil works at shivamandira road in ward no- 02 yelahanka Sub division.

Name of Contractor and Full Address: Sri Shankarappa T K. (MESPC Infra Projects Pvt Ltd) No 60, Ananthapura villae SN Halli post Yelahanka Bangalore - 560064.

Reference to Agreement No. EE/YNK.D/EPMT-09/ W.O/ 064 /2021-22.

Date: 18-10-2021.

Certified that the measurements were taken by me on 30/10/2022 and recorded of Pages 49512.1... to 49512.6 measurement Book No. 49512.1 and that the work is satisfactorily executed.

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 30/10/2022 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

II Memorandum of Payment

- 1) Total value of work done or supplies made as per account within
- 2) Deduct amount to be held in reserve being percent Rs.....
- 3) " Balance
- 4) Deduct Payment:

a) Amount of previous payment as in the Office Cash Book Voucher

No.....Dated.....S.D. No.....

adjusted towards cash advance recovery of

- b) Payments } cost store or other material supplied.
- Now made } recovery of amount creditable to this/other work
- Amount paid on this bill Cheque / Cash.

- 5) Balance being unpaid value of work done held in reserve.
- 6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.
- 7) Net amount due to or from Contractor unadjustments items.
- 8) Advance to Contractor for materials brought to site (as detailed) within
- 9) Value of Government materials supplied.

Asst. Sub-Division Officer

Yelahanka Sub. Division

(BBMP Ynk. Zn)

Yelahanka, Bangalore

Gross Amt = Rs 7685738.00

Amort Rs 325.00

CGST = Rs 68623.00

SGST = Rs 68623.00

IT = Rs 153715.00

LC = Rs 76858.00

CBF = Rs 7686.00

Royalty = Rs 13188.00

T.D. = Rs 389018.00

Total amount adjusted = Rs 7296720.00

Contractor's Signature

Received Rs..... (in words).....

by cash and by adjustment of Payment as per memorandum

(in final settlement of all demands)

(For use in the Office)

Witness

1.

2.

Dated

Paid by me by Cheque No.....

Dated

Cash Rs.....

Dated

Initials of Officer making payment

Audited & Admitted for Rs. 7685738.00

Seventy Six Lakh Eighty Five Thousand Seven Hundred and Thirty Eight

7296720.00 by Cheque

and Rs. 389018.00 By adjustment

Vampr

Accts. Subdt.
Yelahanka Division
BBMPExd. Engineer
Yelahanka Division
BBMP

Sl. no	Description of work	Unit	Measurement		Present Measurement			Total up-to date		Rem
			Qty	cost	Qty	Rate	Cost	Qty	cost	
1	KSRRB M300-14 Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 100 km and complete as per specifications MORTH Specification No 301 Loading and unloading with 5km lead- (I No-19.14 P No-143)	Cum	-	-	187.64	58.98	11065.9	187.64	11065.9	
2	KSRRB M100-1 Loading and unloading of stone boulder/ Stone aggregates/sand /anker/Moorum KSRRB M100-1 Placing tipper at loading point loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications (P No-135, I No 17.1 of PW P&I WTD SR 2018-19)	Cum	-	-	342.29	68.72	23521.7	342.29	23521.7	
3	KSRRB 300-58 Compaction of original ground by mechanical means including filling in depression occurring during rolling including cost of all labour, HOM complete as per specifications (I No-19.64 P No-147)	Sqm	-	-	847.96	6.67	5655.9	847.96	5655.9	
4	KSRRB 4-12 Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.692cum and fine aggregates @ 0.455cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery curing complete as per specifications Specification No. KBS 4.1, 4.2 (P No 13.1 No 4.2 of PW, P&I WTD SR 2018-19)	Cum	-	-	127.19	4258.28	541608.1	127.19	541608.1	
5	Cement concrete pavement Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.45cum coarse and fine aggregate conforming to IS 383-2016, with superplasticiser @ 3lts conforming to IS 9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and foing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) Spreading the concrete with shovels, rammers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine, and curing including cost of all materials, labour, hire charged of machines, all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.45cum Pg No 176 Item No 22.6.1	Cum	-	-	127.19	5907.56	751382.6	127.19	751382.6	
6	Vacuum de-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery screed vibratory power floater blade and disk etc, with all lead and lift etc as per specifications. (Page No. 176 & Item No 22.7 of PW, P&I WTD SR 2018-19)	Sqm	-	-	847.96	75.58	64085.3	847.96	64085.3	
7	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator, HOM of machinery including cost of blade, coolant etc as per specifications as per specifications. (Page No. 176 & Item No 22.8 of PW, P&I WTD SR 2018-19)	Rmtr	-	-	437.85	150.84	65650.2	437.85	65650.2	
8	Earthwork in surface excavation for levelling and lowering the ground manually (Other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled including breaking of clods and neatly dressed as per specifications. No. KBS 2.1 (a)/2.3.1 KSRRB 2-1.1-do- ordinary soil (BCSR Item No 2.1 Page No 6)	Cum	-	-	34.63	281.95	9764.4	34.63	9764.4	
9	KSRRB 2-2.2 Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. Specification No. KBS 2.1(b)/2.3.5 Pg No 6, Item No 2.4	Cum	-	-	187.45	508.44	95307.1	187.45	95307.1	
10	KSRRB 2.8 Providing and Filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. Specification No. KBS Pg No 7, Item No 2.15	Cum	-	-	10.58	2750.55	29087.1	10.58	29087.1	
11	KSRRB 4-1.3 Providing and laying in position plain cement concrete of mix 1:4:8 (M7.5) with OPC	Cum	-	-	39.33	2750.55	108177.1	39.33	108177.1	
			-	-	32.63	5777.40	188487.7	32.63	188487.7	

14	KSRS 4.1.4.1. Providing and constructing granite / trap / basalt size stone masonry in foundation courses not exceeding 1.0 m. Machine hammerdressed in courses not less than 20 cms high, bond stones at the joint in each course including cost of materials, labour, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Pg No.13 Item No.14	Cum	-	-	15.88	6200.10	98346.8	15.88	98346.8
15	KSRS 4.1.4.2. Providing and constructing granite / trap / basalt size stone masonry in foundation courses not exceeding 1.0 m. Machine hammerdressed in courses not less than 20 cms high, bond stones at the joint in each course including cost of materials, labour, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Pg No.13 Item No.15	Cum	-	-	44.73	5204.42	232767.2	44.73	232767.2
16	KSRS 4.1.4.3. Providing and constructing granite / trap / basalt size stone masonry in foundation courses not exceeding 1.0 m. Machine hammerdressed in courses not less than 20 cms high, bond stones at the joint in each course including cost of materials, labour, curing complete as per specifications. Specification No. KBS 4.1, 4.2 Pg No.13 Item No.16	Cum	-	-	5.70	5204.42	29665.2	5.70	29665.2
17	KSRS 4.1.4.4. Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 0.60cum with 20mm and down size graded granite metal coarse aggregates @ 0.60cum and fine aggregate @ 0.40cum, with superplasticiser @ 3litrs conforming to IS9103.1999 Reaffirmed-2008, machine mixed concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, curing and etc. including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P No.13, I No. 4.5 of PWD SR 2018-19)	Cum	-	-	30.42	6033.32	183537.5	30.42	183537.5
18	KSRS 2.8. Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. Including cost of all labour complete as per specifications. Specification No. KBS 2.8, Pg No.7, Item No.2.10	Cum	-	-	80.32	227.61	18281.6	80.32	18281.6
19	KSRS 2.9. Conveying the excavated earth, debris etc. with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No 136, Item No.17.4	Cum	-	-	141.77	70.34	9972.1	141.77	9972.1
20	KSRS 4.6.1. Providing and injecting chemical emulsion for Pre-constructural Anti-Termite Treatment, creating continuous chemical barrier under and around the column pils, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits, with chloropyrphos emulsifiable concentrates of 20% concentration at 3.19 Litre/sqm, including cost of chemical, diluting in water to one percent concentration, labour, HOM complete as per specifications. (Plinth area of the building at ground floor only shall be measured) (BCSR Item No.3.2, Page No. 10)	Cum	-	-	199.77	120.03	23978.8	199.77	23978.8
21	KSRS 4.6.1. Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2, Pg No 16, Item No. 4.28	Sqm	-	-	72.36	292.15	21140.0	72.36	21140.0
22	KSRS 4.6.4. Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2, Pg No 16, Item No.4.31	Sqm	-	-	65.07	405.38	26378.7	65.07	26378.7
23	KSRS 4.6.5. Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification Specification No. KBS 4.6.2, Pg No 16, Item No.4.32	Sqm	-	-	130.42	516.37	67345.0	130.42	67345.0
24	KSRS 4.6.2. Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications for heights more than 3.50m from ground level. - 0 to 5 mtrs Specification No. KBS 4.6.2 page no.16 item no.4.29.2	Sqm	-	-	207.66	452.95	94150.2	207.66	94150.2
25	KSRS 4.6.9. Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials, labour complete as per specifications. Specifications No. KBS 4.6.2, Pg No 17, Item No.4.36	Sqm	-	-	15.05	854.95	12867.0	15.05	12867.0
26	KSRS 4.6.7. Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications Specification No. KBS 4.6.2, Pg No 17, Item No.4.34	Sqm	-	-	0.22	854.95	188.1	0.22	188.1
27	KSRS 4.6.11. Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2, Pg No 17, Item No.4.38	Sqm	-	-	96.72	330.65	31980.5	96.72	31980.5
28	KSRS 4.6.10. Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc., including edges including cost of all materials, labour complete as per specification. Specification No. KBS 4.6.2 Pg No 17, Item No.4.37	Sqm	-	-	15.10	588.84	8944.5	15.19	8944.5
29		Sqm	-	-	8.51	365.76	3112.6	8.51	3112.6

25	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregates @ 0.47cum, with super plasticiser @ 3 liters conforming to IS 9103-1999 reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc. including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.10	Cum	-	-	58.16	6591.39	352801.2	58.16	352801.2
26	KSRB 4.2.8 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with super plasticiser @3lts conforming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground Floor level for roof slabs, staircase, lintels, beams, retaining walls, return wall, walls (any thickness) including attached plasters, columns, pillars, posts, struts, butters, string or facing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.12	Cum	-	-	14.78	6845.24	101138.4	14.78	101138.4
27	KSRB 4.2.8 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates @ 0.47cum, with super plasticiser @3lts conforming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground Floor level for roof slabs, staircase, lintels, beams, retaining walls, return wall, walls (any thickness) including attached plasters, columns, pillars, posts, struts, butters, string or facing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. No. KBS 4.1, 4.6, Pg No. 14, Item No. 4.12	Cum	-	-	27.05	7643.67	206729.5	27.05	206729.5
28	Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25, Pg No.19 Item No.4.49.2	Cum	-	-	0.97	6913.18	6705.8	0.97	6705.8
29	KSRB 4.2.11 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregates @ 0.391cum, with super plasticiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 Pg No.15 Item no.4.20	Sqm	-	-	8.51	561.66	4779.7	8.51	4779.7
30	KSRB 4.2.11 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregates @ 0.391cum, with super plasticiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications. Specification No. KBS 4.1, 4.6 Pg No.15 Item no.4.20	Sqm	-	-	0.00	0.00	0.0	0.00	0.0
31	KSRB 4.9.2 : Providing TMT bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2	Tonne	-	-	11.82	88333.57	1043771.2	11.82	1043771.2
32	KSRB 4.9.2 : Providing TMT bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Pg No.18 Item No.4.46.2	Tonne	-	-	0.56	89180.69	49941.13 (50047.7)	0.56	49941.13 (50047.7)
33	KSRB 5-14.1 : Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 conforming to IS 2185 (part 1) 2005 and constructed with cement mortar 1:4, as per IS 2572 2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KRS No 5.4, Pg No. 27 Item No. 5.27.1	Sqm	-	-	104.85	1032.73	108385.0	104.85	108385.0

34	KSRB 5-14.1: Providing and constructing load bearing wall with solid concrete blocks of size 400X150X200mm having block density not less than 1800kg/m ³ having a minimum average compressive strength 5.0N/mm ² conforming to IS 2185 (part 1) 2005 and constructed with cement mortar 1:4, as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KRS No 5.4, Pg No. 27 Item No. 5.27.2	Sqm	-	-	130.47	1118.79	145252.50 ~~145958.7~~	130.47	145252.50 ~~145958.7~~
35	KSRB15-3.8: Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners, wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 110 Item No. 15.16	Sqm	-	-	220.80	295.55	65257.4	220.80	65257.4
36	KSRB15-3.8: Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners, wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 110 Item No. 15.16	Sqm	-	-	285.34	295.55	84628.1	285.34	84628.1
37	KSRB 15.3.2: Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 115 Item No. 15.10	Sqm	-	-	47.40	309.14	14553.2	47.40	14553.2
38	KSRB 15.3.2: Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 115 Item No. 15.10	Sqm	-	-	35.58	309.14	10999.2	35.58	10999.2
39	KSRB 15.3.2: Providing 12mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 115 Item No. 15.10	Sqm	-	-	179.27	231.01	41413.2	179.27	41413.2
40	providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty. Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all material cost of labour and scaffolding etc., complete as per specification. Pg No. 128 Item No. 15.105	Sqm	-	-	40.75	237.80	9690.4	40.75	9690.4
41	KSRB 15-14.1: Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. - with primer PgNo. 119 I.No. 15.51.2	Sqm	-	-	219.73	254.79	55985.0	219.73	55985.0
42	KSRB 15-14.1: Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications page no.117 item no 15.49.1. KSRB 15-14.1: Extra over item 15-14.1 for applying oil bound washable distemper on ceiling and / or sloping roof as per specifications. Pg No 119, Item No.15.49.2	Sqm	-	-	412.45	88.33	36431.7	412.45	36431.7
43	KSRB 15-16.1: Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer (P. No. 120, I.No. 15.53.2 of SR 2018-19)	Sqm	-	-	201.60	101.91	20554.2	201.60	20554.2
44	KSRB 15-16.1: Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer (P. No. 120, I.No. 15.53.2 of SR 2018-19)	Sqm	-	-	210.76	133.62	28161.8	210.76	28161.8
45	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing, cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials, mortar, labour, curing etc., complete as per Specification Pg No 110 Item No.14.51	Sqm	-	-	220.80	115.50	25502.4	220.80	25502.4
46	KSRB 14.9.1: Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping, under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing complete as per specifications Specification No. KBS 14.4, Pg No 104 Item No 14.13	Sqm	-	-	134.34	115.50	15516.6	134.34	15516.6
		Sqm	-	-	47.40	124.56	5904.1	47.40	5904.1
		Sqm	-	-	19.68	124.56	2451.4	19.68	2451.4
		Sqm	-	-	20.69	5045.89	104399.5	20.69	104399.5
		Sqm	-	-	171.34	714.53	122427.6	171.34	122427.6

47	Providing and fixing for flooring 20mm thick gang saw water cut sadamalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, grooves in joints including cost of curing - minimum width of 1200 mm Pg No 112, Item No 14.61.2	Sqm	-	-	179.00	2322.51	415729.3	179.00	415729.3
48	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc., complete as per specification page no 111 item no 14.56	Mtr	-	-	60.30	203.83	12250.9	60.30	12290.9
49	Waterproofing of RCC Terrace / podium slab / toilet / tubboies / water retaining structure by preparing the surface by chipping and cleaning and GROUTING of Honey comb, voids, cracks / construction joints with cement slurry (1kg cement added in 10 ltr of water) added with 100gm of inorganic accelerator, followed by spraying of liquid biological modified alkaline earth silicates @ 0.40 ltr per sqm on whole surface to reduce the micro porosity and allowing it to dry, curing the surface for the silicates to penetrate deeper into the concrete and spraying waterproofing impregnate liquid containing silane and silanol linear copolymer @ 0.50 ltr per sqm and finally applying polymer slurry made out of cross linked acrylic / styrene / butadiene & cement in the ratio of 1:0:1, @0.50kg/sqm on the whole surface, including all labour charges tools and equipments, all complete as per the specification. page no 69 item no 10.5.1	Sqm	-	-	165.24	595.63	98421.9	165.24	98421.9
50	KSRB 9-27.1 Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour, complete as per specifications. Pg No 60, Item No9.60	Nos	-	-	1.00	1546.83	1545.8	1.00	1546.8
51	KSRB 9-27.1 Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonry for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame, making good the damages to walls and floor as required and disposal of the debris with lead upto 50 m. including cost of materials, labour, complete as per specifications. Pg No 60, Item No9.60	Nos	-	-	1.00	1551.38	1551.4	1.00	1551.4
52	KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster grooves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Pg No 53, Item No9.11	Cum	-	-	0.27	99201.62	26784.3	0.27	26784.3
53	KSRB 9.4-2: Providing Honne wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster grooves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33 Pg No 53, Item No9.11	Cum	-	-	0.07	99205.55	6944.4	0.07	6944.4
54	KSRB 9.5-2: Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34, Pg No. 53, Item No. 9.15	Sqm	-	-	3.76	5347.10	20212.8	3.76	20212.8
55	KSRB 9.5-2: Providing and fixing in position fully panelled Honne wood shutters for doors, styles and rails of 40mm, thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34, Pg No. 53, Item No. 9.15	Sqm	-	-	2.52	5351.83	13486.1	2.52	13486.1
56	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications. Pg no:121, Item no:15.60.1	Sqm	-	-	4.60	109.84	505.3	4.60	505.3
		Sqm	-	-	9.58	109.84	1052.3	9.58	1052.3
57	Providing & fixing of 3 Track - 2 Panel Sliding Windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free, gaskets having isolated drainage and reinforced with Galvanized Iron profile through-out the window Frame. The outer frame having an overall size of 108 mm width X 45 mm height with reinforcement of 1 mm thickness and sash with overall size of 39 mm x 75 mm with GI reinforcement of 2 mm and mesh sash of size 30mm Windows shall be provided with 5mm plain float glass, standard hardware and single point locking system with touch lock. Wall thickness of frame and sash shall be of 2mm -2.5mm. Maximum possible size -2410mm x 2111mm	Sqm	-	-	26.46	5911.02	156405.6	26.46	156405.6

58	Providing and fixing MS Grill over existing Compound Wall as Per using 16mm x 16mm M.S. Square Rod at 150mm c/c spacing and 6mm x 40mm MS flats at horizontal and 6mm x 12mm M.S flat for ornamental Design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges etc. Complete as per specification (P.No 44 of I No 7 38 in PW P&I/ITD SR 2018-19).	Sqm	-	-	26.46	~~6079.75~~	~~160870.2~~	26.46	~~160870.2~~
59	KSRB 15-18.2 Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications. Pg no 123 Item no 15.74	Sqm	-	-	58.50	107.58	6293.4	58.50	6293.4
60	Providing and fixing Stainless steel staircase railing as per Chief Architect Drawing No. 11520/HRSC with hand rail 50mm dia 16 gauge hollow pipe welded to vertical hollow 50mm dia pipe of 16 gauge, stainless steel vertical pipe spaced at 120mm regular intervals, and 5 Nos of 25mm dia Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., complete as per specifications. Pg 45 Item no 7.38	Sqm	-	-	14.00	6818.06	95452.8	14.00	95452.8
61	Providing and fixing to wall, ceiling and floor, low density polyethylene pipes 6.00 kg/sq.cm working pressure 110mm outsidiameter with special flange, compression type fittings, wall clips, making good the wall, ceiling and floor, including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications (P No 95 of I No. 13 70.5 in PW P&I/ITD SR 2018-19)	Mtr	-	-	43.20	509.57	22013.5	43.20	22013.5
62	KSRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications (Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305	Cum	-	-	57.75	368.02	21253.2	57.75	21253.2
63	Providing and Laying Pre-cast drain Slabs of thick 250mm thick of mix M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finishing surface on both sides etc, completed as per drawing and direction of the engineer in charge of work	Sqm	-	-	14.40	5680.77	81803.1	14.40	81803.1
64	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694 and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. Short Point Up to 3m. (Page No 5/Item No 2.1.1)	Point	-	-	8.00	209.70	1677.6	8.00	1677.6
65	Point wiring using copper wire without switch Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using 2x1.5Sqmm (Phase & Neutral) & 1x1.0 sqmm (Earth wire) FRLS multi strand PVC insulated copper wire (confirming to IS-694 and latest amendments) with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet. Medium Point Above 3m 6m. (Page No 5/Item No 2.1.2)	Point	-	-	8.00	288.34	2306.7	8.00	2306.7
66	Concealed Conduit System - Supplying heavy gauge PVC conduit pipe mm dia mm thick and confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary 25mm Dia, 2mm Thick. (Page No 2/Item No 1.2.2)	Rmtr	-	-	110.00	55.57	6112.7	110.00	6112.7
67	Groove cutting Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend, metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary 19/20mm Dia, 2mm Thick. (Page No 2/Item No 1.3.1)	Rmtr	-	-	90.00	53.47	4812.3	90.00	4812.3
68	Groove cutting Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend, metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary 25mm Dia, 2mm Thick. (Page No 2/Item No 1.3.2)	Rmtr	-	-	70.00	56.62	3963.4	70.00	3963.4

69	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 1-3 way (Page No 9/Item No 3.4.1)	Each	-	-	8.00	99.61	795.9	8.00	795.9
70	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall 4-5 way (Page No 9/Item No 3.4.2)	Each	-	-	8.00	110.09	880.7	8.00	880.7
71	Supplying 5A flush type socket and 6 amp flush type SP switch either surface/flush mount in existing gang box or in 4mm thick plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required as per IS 1203 and IS 3554 6AMP 3/5 and Switch (Page No 9/Item No 3.1.2)	No	-	-	8.00	138.40	1107.2	8.00	1107.2
72	Supplying and mounting 2 Nos. of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flush mounted wooden box and wiring as per IS 1203. (Page No 9/Item No 3.2)	Each	-	-	8.00	157.28	1258.2	8.00	1258.2
73	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/niches as per IS 1293 and IS 3854 16Amps Combined Switch and socket with indication (Page No 15/Item No 3.3.4)	No	-	-	8.00	203.41	1627.3	8.00	1627.3
74	Electronic Stepped regulator (Page No 15/Item No 3.3.5)	No	-	-	8.00	157.28	1258.2	8.00	1258.2
75	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS 694 conforming to latest amendments 1.5sqmm (Page No 6/Item No 2.3.2)	Rmtr	-	-	150.00	21.02	3153.0	150.00	3153.0
76	Wiring for lighting / power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694 conforming to latest amendments 2.5sqmm (Page No 6/Item No 2.3.3)	Rmtr	-	-	120.00	33.55	4026.0	120.00	4026.0
77	Supplying and fixing Metal Fan Box with Round Hook (Page No 3/Item No 1.1.2)	Each	-	-	8.00	89.12	713.0	8.00	713.0
78	Supplying and fixing of slim box fitting made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast & Fluorescent Tube. 1X4' Tube light Fitting (Page No 6/Item No 12.4.2)	No s	-	-	8.00	314.55	2516.4	8.00	2516.4
79	Supplying capacitor type ceiling fan complete with down rod blades shackle, canopies etc. for operation on 230 volts, 50 cycles, single phase AC supply conforming to ISS-374-1979 and with double ball bearing system 48" sweep (1200mm) (Page No 45/Item No 7.3.1)	Each	-	-	8.00	2191.37	17531.0	8.00	17531.0
80	Supplying and fixing hylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc. and fixing on existing wood or metal box using N.F screws. (Pg. No. 17 It. No. 3.10)	Sqcm	-	-	4000.00	0.23	922.7	4000.00	922.7
81	Fixing a ceiling / wall mounting fan of all capacities and as types to the existing S hook together with supplying and fixing a 5 ampers ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring completely. (Pg. No. 109 It. No. 17.8)	Each	-	-	8.00	145.74	1165.9	8.00	1165.9
82	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washers etc., complete a) 63 Amps. (Pg. No. 45 It. No. 6.7.3)	Each	-	-	6.00	245.35	1472.1	6.00	1472.1
83	Supplying of 1.1 KV LT UG cable having aluminium conductor PVC extruded inner sheathed, galvanized, steel strip (except 2CX105sqmm wire annealed, conforming to IS-3375:1990 (No. of strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1 1988 & conforming to GTP of GROUP-A. a) 4 core 16 sqmm (Pg. No. 55 It. No. 7.4.4)	Mtr	-	-	30.00	147.21	4416.3	30.00	4416.3
84	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe on wall / on pole as required. In existing trench / duct. a) 6 sqm to 16 sqmm. (Pg. No. 61 It. No. 7.8.1)	Mtr	-	-	30.00	11.32	339.7	30.00	339.7
85	Digging of trench of 0.6 m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete. (Pg. No. 61 It. No. 7.9.1, 7.9.5)	Mtr	-	-	24.00	222.28	5334.8	24.00	5334.8
86	Supplying and fixing miniature circuit breakers on existing C8 distribution boards using necessary ruling materials and wiring complete as -1-d-red, 2. Group 'A' (Pg. No. 47 It. No. 6.16.2, 6.16.4)	Each	-	-	8.00	1146.01	9168.1	8.00	9168.1
87	Supplying and fixing of class A (medium duty) GI pipe of wall thick ness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. (Pg. No. 62 It. No. 7.12.1)	Mtr	-	-	4.00	361.73	1446.9	4.00	1446.9
88	Fabricating supplying and mounting MS box made out SWG sealable ea floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished in approved colour enameled metal pan etc. complete (Pg. No. 49 It. No. 6.40.2)	Each	-	-	4000.00	0.35	1400.0	4000.00	1400.0

88	Supplying and fixing regular MCB distribution boards on wall/woodboard / flush mounting using reputed calrups, beads, nuts etc. with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting etc. complete II Double Door. Group A. (Pg. No. 47 II. No. 0.17 III. 10)	Each	-	-	8.00	5387.19	43097.5	8.00	43097.5
90	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz AC. (Pg. No. 78 II. No. 9.1)	Each	-	-	4.00	1782.45	7129.8	4.00	7129.8
91	Fixing one exhaust fan in the niche already left in the wall with bolts and nuts and 5 amps. ceiling cable with sufficient length of 23/0.0076 inch PVC insulated twin core wire. (Pg. No. 109 II. No. 17.12)	Each	-	-	4.00	431.36	1727.9	4.00	1727.9
92	Supplying and fixing cast Aluminium round or oblong type but head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp. (Pg. No. 20 II. No. 4.4)	Each	-	-	6.00	998.17	5989.0	6.00	5989.0
93	Supply of recess mounted rolling type LED square or round Down light 12 watts with 40W GU 10 LED Lamp Rib Fabricated from Die cast aluminium with white powder coated prewired to mains connector with suitable driver & having swivelling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring 5 years Warranty against any manufacturing defect working under standard electrical condition. (Pg. No. 25 II. No. 4.31)	Each	-	-	20.00	1958.60	39172.0	20.00	39172.0
94	Supplying, fixing, wiring each electrode for grounding conduits, I.C. cutouts and other requirements on the meter board using 40mm dia x 60 thick GI pipe 25' long buried in a pit. The pit should be filled with equal proportion of salt and charcoal 150mm around the pipe to complete depth. The connection from the pipe to the conduit etc. is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checkouts etc. The pipe shall have 16 through holes of 12mm dia. (Pg. No. 55 II. No. 7.1)	Each	-	-	2.00	2850.28	5718.5	2.00	5718.5
95	Supplying box type suitable for 26W T5 single / twin Lamp & suspension mounted luminaire & optical reflector. Prewired with HF electronic Ballast, push fit type lamp holders holders & main connectors. Channel Cover shd be made of CRCA MS Sheet and finishing is done with stove enamelled white with end caps made of engineering plastic 124" x 26 watts (Pg. No. 20 II. No. 4.7.1)	Each	-	-	20.00	1038.02	20760.4	20.00	20760.4
96	Fixing all types and its capacitors fluorescent/ tube ceiling/ spot light CFL fitting indoor on the wall/ceiling/ reflector/ grids using 23/0.0076 twin twisted PVC insulated wires, required nos of round blocks and clamps. A) On wall ceiling/ reflector/ grids. (Pg. No. 108 II. No. 17.7.1)	Each	-	-	20.00	162.75	2055.0	20.00	2055.0
					Sub Total		68622.66	68622.66	
					GST 12%		8234.72	8234.72	
					Total		76857.38	76857.38	

Certificates:

The above work is done satisfactorily and complete in all respect.

There is no department material issue for the above work.

This work comes under BBMP Limit.

Changju
AE-02

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Ynk. Zn)
Yelahanka, Bangalore